DragonFly Model Comparison

DISCONTINUED

DragonFly 1.2 DragonFly Black DragonFly Red







IDENTIFICATION

Black Soft-Touch Finish With Silver Lettering, Protective End-Cap, Leatherette Travel Pouch

Black Soft-Touch Finish With Gold Lettering, Protective End-Cap, Leatherette Travel Pouch

Red Automotive Finish With Gold Lettering, Protective End-Cap, Leatherette Travel Pouch

NATIVE RESOLUTION

Up to 24-bit / 96kHz

Up to 24-bit / 96kHz

Up to 24-bit / 96kHz

OUTPUT

1.8 volte

Direct-Coupled, High output — Excellent for driving a wide range of headphones, including power-hungry, low-efficiency (-90-95dB/mW) models. In addition, DF 1.2's higher output enables a more dynamic musical presentation, with powerful lows and clean, well-extended highs. When used as a line-level device (volume set to 100%), DF 1.2's 1.8 volts provide enough power to drive all preamplifier integrated amplifier, or receiver inputs.

1.2 volte

Direct-Coupled, Medium output — More than enough power to successfully and gracefully drive a wide range of today's efficient headphones. Although DF Black has a lower output voltage than DF 1.2, its more advanced microcontroller and updated DAC chip mean that it can deliver more musical texture and detail — even when used with moderate-efficiency (~95-100dB/mW) headphones. When used as a line-level device (volume set to 100%), DF Black's 1.2 volts provide enough power to drive all

2.1 volte

Direct-Coupled, High output — With a combination of power, beauty, and finesse, DF Red delivers greater overall impact, momentum, and grip than either DF 1.2 or DF Black, while also surpassing their excellent senses of touch, texture, and nuance. In addition, Red's high (2.1v) output means that it can easily drive the widest range of headphones. When used as a line-level device (volume set to 100%), DF Red's 2.1 volts provide enough power to drive all preamplifier, integrated amplifier, or receiver inputs.

MICROCONTROLLER

Texas Instruments TAS1020B

The TAS1020B (USB 1.0 and 1.1 compliant) was one of the first competent full-speed isochronous USB-controller solutions available for USB audio. At its inception (circa 2002), power consumption was far less of a concern, since the mobile devices of the time were not offen used to store and play music.

Microchip PIC32MX

The Microchip PIC32MX (USB 2.0 compliant) is a full-speed isochronous USB audio solution. Compared to other controllers, the Microchip microcontroller offers extremely low power consumption (77% lower than the TAS1020b and 95% lower than the most efficient XMOS solution), 32-bit architecture, and the option for software upgradibility (via a desktop application provided by AudioQuest). In addition, the Microchip's ultra-low-noise power supply minimizes the sound-degrading effect of high-frequency interference on the critical audio signal.

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DAC CHIP

ESS 9023 24-Bit

All ESS DAC chips represent outstaning performance and value.

ESS 9010 32-Bit

Compared to the ESS 9023, the 32-bit ESS 9010 offers improved overall performance and uses a sophisticated minimum-phase digital filter to provide more naturally detailed and dynamic music.

ESS 9016 32-Bit

Like the ESS 9010, the 32-bit ESS 9016 uses a sophisticated minimum-phase digital filter to provide more naturally detailed and dynamic music, but surpasses the 9010 in overall performance.

VOLUME CONTROL

Analog Volume Contro

Digitally controlled (from the host) analog volume control. With DF 1.2 connected to a PC, adjusting the system's volume control will, through proxy, control the DF 1.2's onboard volume, ensuring maximum resolution regardless of volume setting.

Analog Volume Control

Digitally controlled (from the host) analog volume control. With DF Black connected to a PC or mobile device, adjusting the host's volume control will, through proxy, control the DF Black's onboard volume, ensuring maximum resolution regardless of volume setting.

Digital: 64-Bit Bit-Perfect Volume Contro

DragonFly Red employs a 64-bit, bit-perfect digital volume control that resides inside the DAC chip itself—an elegant and sophisticated implementation that ensures maximum fidelity, dynamic contrast, and signal-to-noise ratio. With DragonFly Red connected to a PC or mobile device, adjusting the host's system volume control will, through proxy, control the DragonFly Red's

DESKTOP/PC COMPATIBILITY

Windows 7 / 8.1 / 10; Apple OS X; Linux (no support provided)

Windows 7 / 8.1 / 10; Apple OS X; Linux (no support provided)

Windows 7 / 8.1 / 10; Apple OS X; Linux (no support provided)

MOBILE COMPATIBILITY

No

Yes: Apple iOS (5 and newer); Android 4.1 and newer* For Android devices, see owner's manual

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SOFTWARE UPGRADABLE

No

Yes (from desktop application): Please download AudioQuest's Desktop Manager Application and

Yes (from desktop application): Please download AudioQuest's Desktop Manager Application and register your product.

USB PROTOCOL

Asynchronous USB Streamlength@

Streamlength: "a synchronous USB code ensures low juter, low resource load, minimal packet errors, world-class audio playback, and reliable connectivity between our DAC and any computing device compliant with USB Host Mode (as set forth by the USB Organization). Streamlength requires no additional drivers, making DF 1.2 virtually plug-and-play for Apple, Windows, iOS, and Android users.

Asynchronous USB Streamlength®

Streamlength™ asynchronous USB code ensures low jitter, low resource load, minimal packet errors, world-class audio playback, and reliable connectivity between our DAC and any computing device compliant with USB Host Mode (as set forth by the USB Organization). Streamlength requires no additional drivers, making DragonFly Black virtually plug-and-play for Apple, Windows, iOS,

Asymphranous LISB Streamlanath®

Streamlength M asynchronous USB code ensures low jitter, low resource load, minimal packet errors, world-class audio playback, and reliable connectivity between our DAC and any computing device compliant with USB Host Mode (as set forth by the USB Organization). Streamlength requires no additional drivers, making DragonFy Red virtually plug-and-play for Apple, Windows, iOS, and Andreid users

DIMENSIONS

2mm (h) x 19mm (w) x 62mm (l) 12mm (h) x 19mm (w) x 62mm (l) 12mm (h) x 19mm (w) x 62mm (l)

